

217/782-2113

AUTHORIZATION TO OPERATE
UNDER A GENERAL PERMIT

PERMITTEE

FILL_ADDRESS_IN

General Permit No.: G2951A1

Application No.: FILL_NO._IN

I.D. No.: FILL_NO._IN

Applicants Designation:

Date Received: FILL_DATE_IN

Type of Source: Drum-Mix Asphalt Plant with Generator

Date Issued: FILL_DATE_IN

Expiration Date: FILL_DATE_IN

Source Location: FILL_LOCATION ADDRESS_IN

Authorization is hereby granted to the above-designated Permittee to operate the above source, consisting of a drum-mix asphalt plant with a baghouse, up to eight (8) asphalt storage silos, up to twelve (12) storage tanks, up to five (5) asphalt tank heaters and boilers (14 mmBtu/hr total maximum firing rate of all units combined), hot mix asphalt silos with truck loadout and a crushing plant (up to three (3) crushers, up to nine (9) screens, up to thirty (30) conveyor transfer points with associated transfer points), and a diesel-powered generator (up to 2,000 bhp) under a General Permit for a drum-mix asphalt plant, pursuant to the above-referenced application.

If you have any questions regarding this authorization, please contact FILL_PERMIT ENGINEER_IN at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:FILL_INITIALS_IN

cc: Region FILL_NO._IN

**GENERAL FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
FOR DRUM-MIX ASPHALT PLANT -- NSPS SOURCE**

Permit No.: G2951A1
Subject: Drum-Mix Asphalt Plant with Generator
Expiration Date: November 1, 2009

This permit is hereby granted to OPERATE a drum-mix asphalt plant as specified below in Findings 1, 2, and 3. To receive authorization to operate under this General Permit, the owner or operator of a source must submit an application, as described in Finding 4, to the Illinois EPA. Authorization, if granted, will be transmitted by letter. A copy of this permit will be included.

Findings

1. This general permit is applicable to drum-mix asphalt plants that meet all of the following criteria:
 - a.
 - i. The plant produces no more than 142,000 tons per month and 850,000 tons per year of asphalt.
 - ii. The drum mixer is equipped with a baghouse for particulate matter control.
 - b.
 - i. The sum of all materials processed by the crushing plant does not exceed 55,000 tons per month and 425,000 tons per year of reclaimed asphalt pavement (RAP) and recycled concrete.
 - ii. Water sprays are used on the emission units associated with the crushing plant (crushers, conveyors, and stockpiles) to produce a moisture content of 1.5% by weight or higher in order to control particulate matter emissions, rather than by capture systems and collection devices.
 - iii. All normal traffic pattern access areas surrounding storage piles and all normal traffic pattern roads and parking facilities which are located on the property are paved or treated with water, oils or chemical dust suppressants. All paved areas are cleaned on a regular basis. All areas treated with water, oils or chemical dust suppressants have the treatment applied on a regular basis, or as needed basis.
 - c.
 - i. The only fuels fired in the drum mixer and drum dryer are natural gas, liquefied petroleum gas (LPG), distillate fuel oil grades No. 1 and 2 (i.e., diesel) or residual fuel oil grades No. 4, 5, and 6. The use of waste oil for fuel in the drum mixer and drum dryer is allowed only if the owner or operator of the affected drum-mix asphalt plant has received prior written approval from the Illinois EPA and has performed stack testing to verify compliance with all applicable requirements.

- ii. A. The only fuels fired in the boilers, and tank heaters are natural gas, liquefied petroleum gas (LPG), distillate fuel oil grades No. 1 and 2 (i.e., diesel) or residual fuel oil grades No. 4, 5, and 6.
 - B. The total design heat input capacity of any individual boiler or any individual asphalt tank heater does not exceed 10.0 million Btu/hour and the total rated heat input capacity for all such units shall not exceed 14 million Btu/hour.
 - iii. A. The only fuel fired in the generator is distillate fuel oil, grades No. 1 and 2 (i.e., diesel).
 - B. The total amount of fuel oil combusted in the diesel-powered generator does not exceed 50,000 gallons per month and 300,000 gallons per year.
 - d. Unless it is otherwise addressed by this permit, any other emission units requiring a permit from the Illinois EPA are not present at this source.
2. For purposes of this permit, an affected drum-mix asphalt plant includes all aggregate transfer, weigh-hopper loading, loading and transferring at the site and is one that does not exceed:
- a. One (1) asphalt drum mixer and one (1) drum dryer with a baghouse;
 - b. Eight (8) asphalt storage silos with truck loadout;
 - c. Twelve (12) storage tanks each with capacities less than:
 - i. 19,815 gallons for tanks used to store gasoline; or
 - ii. 39,889 gallons for tanks used to store materials with a vapor pressure less than 2.17 psi (e.g., asphalt cement, asphalt oil, fuel oils, etc.).
 - d. Five (5) asphalt tank heaters and boilers (10 mmBtu/hr maximum firing rate per individual unit and a total of 14 mmBtu/hr maximum firing for all such units);
 - e. RAP/recycled concrete crushing plant comprised of:
 - i. Three (3) crushers;
 - ii. Nine (9) screens; and
 - iii. Thirty (30) conveyors associated with the crushing plant.
 - f. One (1) 2,000 bhp diesel-powered generator.

3. This permit imposes conditions on activities at the affected drum-mix asphalt plant to assure compliance with applicable requirements of:
 - a. 40 CFR Part 60, Subparts A, I, and 000;
 - b. 35 IAC Part 212, Subparts E, K, and L;
 - c. 35 IAC Part 214, Subparts B and K; and/or
 - d. 35 IAC Part 215, Subparts B, K, and Y; 35 IAC Part 218 Subparts B, G, and Y; or 35 IAC Part 219 Subparts B, G, and Y.
4. This permit does not excuse the Permittee from obtaining a Construction Permit and/or an Operating Permit for any additional emission units in excess of those units specified in Finding 2.
5. The Illinois EPA will only authorize operation pursuant to this permit if an application includes the following items:
 - a. A description and location identifying the drum-mix asphalt plant.
 - b. A statement certifying that the drum-mix asphalt plant meets the criteria in Finding 1.
 - c. A request for authorization to operate pursuant to this general permit.
 - d. A statement that the drum-mix asphalt plant is, and will be, operated to comply with 40 CFR Part 60, Subparts A, I, and 000 (if applicable); 35 IAC Part 212, Subparts E, K, and L; 35 IAC Part 214, Subparts B and K; 35 IAC Part 215, Subparts B, K, and Y; 35 IAC Part 218 Subparts B, G, and Y; or 35 IAC Part 219 Subparts B, G, and Y; and the Conditions of this permit.
 - e. A signed certification by the applicant that the information contained in the application is accurate.
6. This federally enforceable state operating permit is issued to limit the emissions of carbon monoxide (CO), nitrogen oxides (NO_x), volatile organic material (VOM), sulfur dioxide (SO₂), and other pollutants from the source to less than major source levels, so that the source is excluded from requirements to obtain a permit under the Clean Air Act Permit Program (CAAPP). The maximum emissions of this source, as limited by the conditions of this permit, are described in Attachment A.

Conditions

This permit is subject to both the standard conditions attached hereto and the following special condition(s):

1. Source Description

- a. This federally enforceable state operating permit (FESOP) is issued to limit the emissions of air pollutants from the source to less than major source thresholds (i.e., 25 tons/year for VOM and 100 tons/yr for CO, NO_x, and SO₂). As a result, the source is excluded from the requirements to obtain a Clean Air Act Permit Program (CAAPP) permit. The maximum emissions of this source, as limited by the conditions of this permit are described in Attachment A.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- c. This permit supersedes all operating permit(s) issued for this location.
- d. This permit allows the operation and construction of additional emission units of an affected drum-mix asphalt plant (including all aggregate transfer, weigh-hopper loading, loading and transferring at the site) not to exceed:
 - i. One (1) asphalt drum mixer and one (1) drum dryer with a baghouse;
 - ii. Eight (8) asphalt storage silos with truck loadout;
 - iii. Twelve (12) storage tanks with capacities less than:
 - A. 19,815 gallons for tanks used to store gasoline; or
 - B. 39,889 gallons for tanks used to store materials with a vapor pressure less than 2.17 psi (e.g., asphalt cement, asphalt oil, fuel oils, etc.).
 - iv. Five (5) asphalt tank heaters and boilers (10 mmBtu/hr maximum firing rate per individual unit and a total of 14 mmBtu/hr maximum firing for all such units);
 - v. RAP/recycled concrete crushing plant comprised of:
 - A. Three (3) crushers;
 - B. Nine (9) screens; and
 - C. Thirty (30) conveyors associated with the crushing plant.
 - vi. One (1) 2,000 bhp diesel-powered generator.

- e. This permit does not exempt the Permittee from obtaining a Construction and/or Operating Permit for any additional emission units in excess of those units specified in Condition 1(d), unless such emission units or operations are already exempted from permitting requirements pursuant to 35 IAC 201.146 and does not affect the source's status with respect to the applicability of Section 39.5 of the Illinois Environmental Protection Act.

2. Applicability Provisions and Applicable Regulations

- a. An affected drum-mix asphalt plant, that commences construction or modification after June 11, 1973, is subject to the requirements of the New Source Performance Standards (NSPS) for Hot Mix Asphalt Facilities, 40 CFR 60, Subparts A and I. The Illinois EPA is administering these standards in Illinois on behalf of the United States EPA under a delegation agreement. Pursuant to 40 CFR 60.92, no owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any affected facility any gases which:
 - i. Contain particulate matter in excess of 90 mg/dscm (0.04 gr/dscf); or
 - ii. Exhibit 20 percent opacity, or greater.
- b. Crushers and grinding mills that commence construction, reconstruction, or modification after August 31, 1983 at an affected drum-mix asphalt plant that reduce the size of nonmetallic minerals embedded in recycled asphalt pavement and subsequent affected facilities up to, but not including, the first storage silo or bin are subject to the provisions of the New Source Performance Standards (NSPS) for Nonmetallic Mineral Processing Plants, 40 CFR 60 Subparts A and 000.
 - i. Pursuant to 40 CFR 60.670(a)(2), the provisions of 40 CFR 60 Subpart 000 do not apply to the stand-alone screening operations without crushers or grinding mills;
 - ii. Pursuant to 40 CFR 60.670(b), the crushers and grinding mills that are subject to the provisions of 40 CFR 60 Subpart I or that follows in the plant process any facility subject to the provisions of 40 CFR 60 Subpart I is not subject to the provisions of 40 CFR 60 Subpart 000;
 - iii. Pursuant to 40 CFR 60.670(c), Facilities at the following plants are not subject to the provisions of 40 CFR 60 Subpart 000:
 - A. Fixed sand and gravel plants and crushed stone plants with capacities, as defined in 40 CFR 60.671, of 23 megagrams per hour (25 tons per hour) or less; and

- B. Portable sand and gravel plants and crushed stone plants with capacities, as defined in 40 CFR 60.671, of 136 megagrams per hour (150 tons per hour) or less.
- iv. On and after the date on which the performance test required to be conducted by Condition 5(a)(i) (see also 40 CFR 60.8) is completed, no owner or operator subject to the provisions of Condition 2(b) (see also 40 CFR 60 Subpart 000) shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any stack emissions which contain particulate matter in excess of 0.05 g/dscm (0.022 gr/dscf) [40 CFR 60.672(a)(1)].
- v. Pursuant to 40 CFR 60.672(b), no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any fugitive emissions which exhibit greater than 10 percent opacity, except as provided in 40 CFR 60.672(c), (d), and (e).
- vi. Pursuant to 40 CFR 60.672(c), no owner or operator shall cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15 percent opacity.
- vii. Pursuant to 40 CFR 60.672(d), truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of 40 CFR 60.672.
- viii. Pursuant to 40 CFR 60.672(e), if any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in Conditions 2(b)(iv), 2(b)(v), and 2(b)(vi) (see also 40 CFR 60.672(a), (b) and (c)), or the building enclosing the affected facility or facilities must comply with the following emission limits:
 - A. No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions except emissions from a vent as defined in 40 CFR 60.671 [40 CFR 60.672(e)(1)].
 - B. No owner or operator shall cause to be discharged into the atmosphere from any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility emissions which exceed the stack emissions limits in Condition 2(b)(iv) (see also 40 CFR 60.672(a)) [40 CFR 60.672(e)(2)].

c. Particulate Matter Standards

i. No person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, pursuant to 35 IAC 212.123(a), except as allowed by 35 IAC 212.123(b) and 212.124.

ii. Asphalt tank heaters and boilers associated with an affected drum-mix asphalt plant which combust liquid fuels are subject to 35 IAC 212.206, which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period to exceed 0.15 kg of particulate matter per MW-hr of actual heat input from any fuel combustion emission unit using liquid fuel exclusively (0.10 lbs/mmBtu).

iii. No person shall cause or allow emissions of PM₁₀ into the atmosphere to exceed 12.9 ng/J (0.03 lbs/mmBtu) of heat input from fuels other than natural gas during any one hour period from any industrial fuel combustion emission units, other than in an integrated iron and steel plant, located in the vicinity of Granite City, which area is defined in Attachment C (see also 35 IAC 212.324(a)(1)(C)) [35 IAC 212.210(a)].

iv. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally overhead at a point beyond the property line of the source unless the wind speed is greater than 40.2 kilometers per hour (25 miles per hour), pursuant to 35 IAC 212.301 and 212.314.

v. Should this stationary source, as defined in Attachment B (see also 35 IAC 212.302) become subject to the requirement to prepare and submit an operating program for fugitive particulate matter as set forth in 35 IAC 212.309, then this source shall be operated under the provisions of such an operating program prepared by the Permittee and submitted to the Illinois EPA for its review. Such operating program shall be designed to significantly reduce fugitive particulate matter emissions from the emission units described in Condition 2(c)(v)(A) through 2(c)(v)(C) and 2(c)(vi) (see also 35 IAC 212.304 through 212.308 and 212.316).

A. Traffic Areas: All normal traffic pattern roads and parking facilities which are located on mining or manufacturing property shall be paved or treated with

water, oils or chemical dust suppressants. All paved areas shall be cleaned on a regular basis. All areas treated with water, oils or chemical dust suppressants shall have the treatment applied on a regular basis, as needed, in accordance with the operating program required by Conditions 2(c) (iii) and Condition 2(c) (v) (D) and (E) (see also 35 IAC 212.309, 212.310 and 212.312) [35 IAC 212.306].

- B. Materials Collected by Pollution Control Equipment: All unloading and transporting operations of materials collected by pollution control equipment shall be enclosed or shall utilize spraying, pelletizing, screw conveying or other equivalent methods [35 IAC 212.307].
- C. Spraying or Choke-Feeding Required: Crushers, grinding mills, screening operations, bucket elevators, conveyor transfer points, conveyors, bagging operations, storage bins and fine product truck and railcar loading operations shall be sprayed with water or a surfactant solution, utilize choke-feeding or be treated by an equivalent method in accordance with an operating program [35 IAC 212.308].
- D. Minimum Operating Program: Pursuant to 35 IAC 212.310, at a minimum the operating program shall include the following:
 - I. The name and address of the source [35 IAC 212.310(a)];
 - II. The name and address of the owner or operator responsible for execution of the operating program [35 IAC 212.310(b)];
 - III. A map or diagram of the source showing approximate locations of storage piles, conveyor loading operations, normal traffic pattern access areas surrounding storage piles and all normal traffic patterns within the source [35 IAC 212.310(c)];
 - IV. Location of unloading and transporting operations with pollution control equipment [35 IAC 212.310(d)];
 - V. A detailed description of the best management practices utilized to achieve compliance with this Subpart, including an engineering specification of particulate collection

equipment, application systems for water, oil, chemicals and dust suppressants utilized and equivalent methods utilized [35 IAC 212.310(e)];

VI. Estimated frequency of application of dust suppressants by location of materials [35 IAC 212.310(f)]; and

VII. Such other information as may be necessary to facilitate the Illinois EPA's review of the operating program [35 IAC 212.310(g)].

E. Amendment to Operating Program: The operating program shall be amended from time to time by the owner or operator so that the operating program is current. Such amendments shall be consistent with Condition 2(c)(v) (see also 35 IAC Part 212 Subpart K) and shall be submitted to the Illinois EPA for its review [35 IAC 212.312].

vi. Emissions Limitations for Emission Units in Certain Areas

A. Applicability. This Condition shall apply to those operations specified in Condition 2(c)(v) and Attachment B (see also 35 IAC 212.302) and that are located in areas defined in Attachment C (see also 35 IAC 212.324(a)(1)) (e.g., McCook, Lake Calumet, and Granite City) [35 IAC 212.316(a)].

B. Emission Limitation for Crushing and Screening Operations. No person shall cause or allow fugitive particulate matter emissions generated by the crushing or screening of slag, stone, coke or coal to exceed an opacity of 10 percent [35 IAC 212.316(b)].

C. Emission Limitations for Roadways or Parking Areas. No person shall cause or allow fugitive particulate matter emissions from any roadway or parking area to exceed an opacity of 10 percent, except that the opacity shall not exceed 5 percent at quarries with a capacity to produce more than 1 million T/yr of aggregate [35 IAC 212.316(c)].

D. Emission Limitations for Storage Piles. No person shall cause or allow fugitive particulate matter emissions from any storage pile to exceed an opacity of 10 percent, to be measured four ft from the pile surface [35 IAC 212.316(d)].

- E. Emission Limitation for All Other Emission Units. Unless an emission unit has been assigned a particulate matter, PM_{10} , or fugitive particulate matter emissions limitation elsewhere in this Condition or in 35 IAC Part 212 Subparts R or S, no person shall cause or allow fugitive particulate matter emissions from any emission unit to exceed an opacity of 20 percent [35 IAC 212.316(f)].
- vii. No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.321 [35 IAC 212.321(a)].
- viii. Sources located in certain areas designated in 35 IAC 212.324(a)(1) (e.g., McCook, Lake Calumet, and Granite City) shall comply with the following requirements:
 - A. General Emission Limitation. Except as otherwise provided in 35 IAC 212.324, no person shall cause or allow the emission into the atmosphere, of PM_{10} , from any process emission unit to exceed 68.7 mg/scm (0.03 gr/scf) during any one hour period [35 IAC 212.324(b)].
 - B. Exceptions. The mass emission limits contained in 35 IAC 212.324(b) shall not apply to those emission units with no visible emissions other than fugitive particulate matter; however, if a stack test is performed, this Condition is not a defense finding of a violation of the mass emission limits contained in 35 IAC 212.324(b) [35 IAC 212.324(d)].
 - C. Special Emissions Limitation for Fuel-Burning Process Emission Units in the Vicinity of Granite City. No person shall cause or allow emissions of PM_{10} into the atmosphere to exceed 12.9 ng/J (0.03 lbs/mmBtu) of heat input from the burning of fuel other than natural gas at any process emission unit located in the vicinity of Granite City as defined in Attachment C (see also 35 IAC 212.324(a)(1)(C)) [35 IAC 212.324(e)].
- ix. Should this stationary source, as defined in 35 IAC 212.700, become subject to the requirement to prepare and submit a contingency measure plan reflecting the PM_{10} emission reductions as set forth in 35 IAC 212.703, then

the owner or operator shall submit such plan to the Illinois EPA for review and approval within ninety (90) days after the date this source becomes subject to this requirement. Such plan will be incorporated by reference into this permit and shall be implemented in accordance with 35 IAC 212.704. The source shall comply with the applicable requirements of 35 IAC Part 212, Subpart U, incorporated herein by reference.

d. Sulfur Dioxide Standards

- i. Asphalt tank heaters and boilers associated with an affected drum-mix asphalt plant which combust liquid fuels are subject to 35 IAC 214.122(b), which provides that:

No person shall cause or allow the emission of sulfur dioxide into the atmosphere in any one hour period from any new fuel combustion source with actual heat input smaller than, or equal to, 73.2 MW (250 mmBtu/hr), burning liquid fuel exclusively

- A. To exceed 1.55 kg of sulfur dioxide per MW-hr of actual heat input when residual fuel oil is burned (0.8 lbs/mmBtu) [35 IAC 214.122(b)(1)]; and
- B. To exceed 0.46 kg of sulfur dioxide per MW-hr of actual heat input when distillate fuel oil is burned (0.3 lbs/mmBtu) [35 IAC 214.122(b)(2)].

- ii. No person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission unit to exceed 2000 ppm, [35 IAC 214.301].
- iii. Pursuant to 35 IAC 214.304 the emissions from the burning of fuel at process emission units located in the Chicago or St. Louis (Illinois) major metropolitan areas shall comply with applicable Condition 2(d)(i)(A) or (B) (see also 35 IAC Part 214 Subparts B through F).

e. Volatile Organic Material Standards

- i. A. Pursuant to 35 IAC 215.122(b), 218.122(b), or 219.122(b), as applicable, no person shall cause or allow the loading of any organic material into any stationary tank having a storage capacity of greater than 946 l (250 gal), unless such tank is equipped with a permanent submerged loading pipe, submerged fill, or an equivalent device approved by the Illinois EPA according to the provisions of 35 IAC Part 201 or unless such tank is a pressure tank as described in 35 IAC 215.121(a), 218.121(a), or 219.121(a) or is fitted with a recovery system as described in 35 IAC 215.121(b)(2), 218.121(b)(2), or 219.121(b)(2).

- B. Exception: Pursuant to 35 IAC 215.122(c), 218.122(c), or 219.122(c), as applicable, if no odor nuisance exists the limitations of Condition 2(e) (i) (A) shall only apply to the loading of volatile organic liquid with a vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3°K (70°F).
- ii. Use of Organic Material. Pursuant to 35 IAC 215.301, 218.301, or 219.301, as applicable, no person shall cause or allow the discharge of more than 8.0 lbs/hr of organic material into the atmosphere from any emission unit. If no odor nuisance exists then this limitation shall only apply to photochemically reactive material as defined in 35 IAC 211.4690.
- iii. Pursuant to 35 IAC 215.583(a), 218.583(a), or 219.583(a) and 215.583(b), 218.583(b), or 219.583(b), no person shall cause or allow the transfer of gasoline from any delivery vessel into any stationary storage tank with a capacity of 575 gallons or more (unless tank has a capacity of 2,000 gallons or less and was in place and operational prior to January 1, 1979) at a gasoline dispensing operation unless:
 - A. The tank is equipped with a submerged loading pipe [35 IAC 215.583(a) (1), 218.583(a) (1), or 219.583(a) (1)]; and
 - B. Pursuant to 35 IAC 215.583(a) (2), 218.583(a) (2), or 219.583(a) (2), the vapors displaced from the storage tank during filling are processed by a vapor control system that includes one or more of the following:
 - I. A vapor collection system that meets the requirements of Condition 5(d) (see also 35 IAC 215.583(d) (4), 218.583(d) (4), or 219.583(d) (4)) [35 IAC 215.583(a) (2) (A), 218.583(a) (2) (A), or 219.583(a) (2) (A)]; or
 - II. A refrigeration-condensation system or any other system approved by the Illinois EPA that recovers at least 90 percent by weight of all vaporized organic material from the equipment being controlled [35 IAC 215.583(a) (2) (B), 218.583(a) (2) (B), or 219.583(a) (2) (B)]; and
 - III. The delivery vessel displays the appropriate sticker pursuant to the requirements of 35 IAC 215.584(b) or (d), 218.584(b) or (d), or 219.584(b) or (d) [35 Ill Adm. Code 215.583(a) (2) (C), 218.583(a) (2) (C), or 219.583(a) (2) (C)]; and

- C. Pursuant to 35 IAC 218.583(a)(3) or 219.583(a)(3), all tank vent pipes are equipped with pressure/vacuum relief valves with the following design specifications:
 - I. The pressure/vacuum relief valve shall be set to resist a pressure of at least 3.5 inches water column and to resist a vacuum of no less than 6.0 inches water column [35 IAC 218.583(a)(3)(A) or 219.583(a)(3)(A)]; or
 - II. The pressure/vacuum relief valve shall meet the requirements of 35 IAC 218.586(c) [35 IAC 218.583(a)(3)(B) or 219.583(a)(3)(B)]; and
- D. The owner or operator of a gasoline dispensing operation demonstrates compliance with Condition 2(e)(iii)(C) (see also 35 IAC 218.583(a)(3) or 219.583(a)(3)), 30 days after installation of each pressure/vacuum relief valve, whichever is later, and at least annually thereafter, by measuring and recording the pressure indicated by a pressure/vacuum gauge at each tank vent pipe. The test shall be performed on each tank vent pipe within two hours after product delivery into the respective storage tank. For manifold tank vent systems, observations at any point within the system shall be adequate. The owner or operator shall maintain any records required by this Condition for a period of three years [35 IAC 218.583(a)(4) or 219.583(a)(4)].

3. Operational Limits and Work Practice Requirements

- a. The Permittee shall maintain and operate the affected drum-mix asphalt plant, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions pursuant to 40 CFR 60.11(d).
- b. Maintenance and Repair. Pursuant to 35 IAC 212.324(f), for any process emission unit subject to 35 IAC 212.324(a) (i.e., sources located in McCook, Lake Calumet, or Granite City), the owner or operator shall maintain and repair all air pollution control equipment in a manner that assures that the emission limits and standards in Condition 2(c)(viii) (see also 35 IAC 212.324) shall be met at all times. This Condition shall not affect the applicability of 35 IAC 201.149. Proper maintenance shall include the following minimum requirements:
 - i. Visual inspections of air pollution control equipment [35 IAC 212.324(f)(1)];

- ii. Maintenance of an adequate inventory of spare parts [35 IAC 212.324(f) (2)]; and
 - iii. Expeditionary repairs, unless the emission unit is shutdown [35 IAC 212.324(f) (3)].
- c. Pursuant to 35 IAC 215.583(c), 218.583(c), or 219.583(c), each owner of a gasoline dispensing operation shall:
- i. Install all control systems and make all process modifications required by Condition 2(e) (iii) (see also 35 IAC 215.583(a), 218.583(a), or 219.583(a)) [35 IAC 215.583(c) (1), 218.583(c) (1), or 219.583(c) (1)];
 - ii. Provide instructions to the operator of the gasoline dispensing operation describing necessary maintenance operations and procedures for prompt notification of the owner in case of any malfunction of a vapor control system [35 IAC 215.583(c) (2), 218.583(c) (2), or 219.583(c) (2)]; and
 - iii. Repair, replace or modify any worn out or malfunctioning component or element of design [35 IAC 215.583(c) (3), 218.583(c) (3), or 219.583(c) (3)].
- d. Pursuant to 35 IAC 215.583(d), 218.583(d), or 219.583(d), each operator of a gasoline dispensing operation shall:
- i. Maintain and operate each vapor control system in accordance with the owner's instructions [35 IAC 215.583(d) (1), 218.583(d) (1), or 219.583(d) (1)];
 - ii. Promptly notify the owner of any scheduled maintenance or malfunction requiring replacement or repair of a major component of a vapor control system [35 IAC 215.583(d) (2), 218.583(d) (2), or 219.583(d) (2)];
 - iii. Maintain gauges, meters or other specified testing devices in proper working order [35 IAC 215.583(d) (3), 218.583(d) (3), or 219.583(d) (3)]; and
 - iv. Pursuant to 35 IAC 215.583(d) (4), 218.583(d) (4), or 219.583(d) (4), operate the vapor collection system and delivery vessel unloading points in a manner that prevents:
 - A. A reading equal to or greater than 100 percent of the lower explosive limit (LEL measured as propane) when tested in accordance with the procedure described in EPA 450/2-78-051 Appendix B [35 IAC 215.583(d) (4) (A), 218.583(d) (4) (A), or 219.583(d) (4) (A)]; and

- B. Avoidable leaks of liquid during the filling of storage tanks [35 IAC 215.583(d)(4)(B), 218.583(d)(4)(B), or 219.583(d)(4)(B)].
- e. The baghouse shall be in operation at all times when the associated drum dryer is in operation and emitting air contaminants.
- f. The Permittee shall follow good operating practices for the baghouse, including periodic inspection, routine maintenance and prompt repair of defects.
- g. The surface moisture content of the aggregate to be processed in the crushing plant associated with the affected drum-mix asphalt plant shall be at least 1.5% by weight. The Permittee shall show compliance with this requirement as follows:
 - i. Water sprays shall be used on the emission units associated with the crushing plant (e.g., crushers, conveyors, and stockpiles, etc.) as necessary, except when weather conditions are below or expected to fall below freezing temperatures, to produce a moisture content of 1.5% by weight or higher to reduce particulate matter emissions; or
 - ii. Demonstrate compliance with Condition 3(g) by following the testing requirements of Condition 5(d).
 - iii. All normal traffic pattern access areas surrounding storage piles and all normal traffic pattern roads and parking facilities which are located on the property shall be paved or treated with water, oils or chemical dust suppressants. All paved areas shall be cleaned on a regular basis. All areas treated with water, oils or chemical dust suppressants shall have the treatment applied on a regular basis, or as needed basis.
- h.
 - i. The drum mixer and drum dryer shall only be operated with natural gas, liquefied petroleum gas (LPG), distillate fuel oil grades No. 1 and 2 (i.e., diesel) or residual fuel oil grades No. 4, 5, and 6 as the fuels. The use of waste oil for fuel in the drum mixer and drum dryer is authorized by this permit only if the owner or operator of the affected drum-mix asphalt plant has received prior approval from the Illinois EPA and has performed stack testing to verify compliance with all applicable requirements.
 - ii. The boilers and tank heaters shall only be operated with natural gas, liquefied petroleum gas (LPG), distillate fuel oil grades No. 1 and 2 (i.e., diesel) or residual fuel oil grades No. 4, 5, and as the fuels.

- iii. The generator shall only be operated with distillate fuel oil, grades No. 1 and 2 (i.e., diesel) and as the fuel.
- i. At the above location, the Permittee shall not keep, store, or utilize in the affected drum-mix asphalt plant:
 - i. Distillate fuel oil (Grade No. 1 and 2) with a sulfur content greater than the larger of the following two values:
 - A. 0.28 weight percent, or
 - B. The wt. percent given by the formula: Maximum wt. percent sulfur = $(0.000015) \times (\text{Gross heating value of oil, Btu/lb})$.
 - ii. Residual fuel oil (Grade No. 4, 5 and 6) with a sulfur content greater than that given by the formula:

$$\text{Maximum wt. percent sulfur} = (0.00004) \times (\text{Gross heating value of oil, Btu/lb}).$$
 - iii. Organic liquid by-products or waste materials shall not be used in an affected drum-mix asphalt plant without written approval from the Illinois EPA.
 - iv. The Illinois EPA shall be allowed to sample all fuels stored at the above location.
- j. In the event that the operation of this source results in an odor nuisance, the Permittee shall take appropriate and necessary actions to minimize odors, including but not limited to, changes in raw material or installation of controls, in order to eliminate the nuisance.

4. Emission Limitations

- a. Emissions and operation of the affected drum-mix asphalt plant shall not exceed the following limits:

- i. Asphalt Production Limits:

<u>(Tons/Mo)</u>	<u>(Tons/Yr)</u>
142,000	850,000

- ii. Emissions from Drum Mixer/Dryer:

<u>Pollutant</u>	<u>Emission Factor (Lb/Ton)</u>	<u>Emissions</u>	
		<u>(Tons/Mo)</u>	<u>(Tons/Yr)</u>
CO	0.13	9.23	55.25
NO _x	0.055	3.91	23.38
PM	0.033	2.34	14.03
PM ₁₀	0.023	1.63	9.78
SO ₂	0.058	4.12	24.65
VOM	0.032	2.27	13.60

iii. Emissions from Asphalt Silo Loading and Truck Loadout:

<u>Pollutant</u>	<u>Emission Factor (Lb/Ton)</u>	<u>Emissions (Lb/Mo)</u>	<u>Emissions (Tons/Yr)</u>
CO	0.0007	99.40	0.30
PM	0.0007	99.40	0.30
PM ₁₀	0.0007	99.40	0.30
VOM	0.0048	681.60	2.04

iv. These limits are based on maximum asphalt production and standard AP-42 emission factors.

b. Emissions and operation of the asphalt tank heaters and boilers shall not exceed the following limits:

- i. Maximum firing rate of any individual unit: 10 mmBtu/hr
- ii. Total maximum firing rate for all asphalt tank heaters and boilers: 14 mmBtu/hr
- iii. Emissions from asphalt heaters and boilers:

<u>Pollutant</u>	<u>Emission Factor (Lb/mmBtu)</u>	<u>Emissions (Lb/Hr)</u>	<u>Emissions (Tons/Yr)</u>
CO	0.084	1.18	5.15
NO _x	0.143	2.00	8.77
PM	0.014	0.20	0.86
SO ₂	0.304	4.26	18.64
VOM	0.006	0.08	0.37

iii. These limits are based on maximum fuel usage and standard AP-42 emission factors.

c. Emissions of VOM from the twelve (12) storage tanks shall not exceed 1.0 tons/month and 6.0 tons/year, combined. This limit is based on a maximum throughput of 350,000 gallons/year of gasoline.

d. Emissions and operation of the crushing plant shall not exceed the following limits:

- i. Total Reclaimed Asphalt Pavement (RAP) and recycled concrete throughput:

<u>(Tons/Mo)</u>	<u>(Tons/Yr)</u>
55,000	425,000

ii. Particulate Matter Emissions from the Crushing Plant:

<u>Item of Equipment</u>	<u>Emission Factor</u> <u>(Lb/Ton)</u>	<u>Emissions</u>	
		<u>(Tons/Mo)</u>	<u>(Tons/Yr)</u>
3 Crushers	0.0012	0.10	0.77
9 Screens	0.0022	0.54	4.21
30 Conveyors	0.00014	0.12	0.89

iii. These limits are based on maximum aggregate throughput and standard, controlled AP-42 emission factors.

e. Emissions and operation of the diesel-powered generator shall not exceed the following limits:

i. Total distillate fuel usage of the diesel-powered generator:

<u>(Gal/Mo)</u>	<u>(Gal/Yr)</u>
50,000	300,000

ii. Emissions from the diesel-powered generator:

<u>Pollutant</u>	<u>Emission Factor</u> <u>(Lb/mmBtu)</u>	<u>Emissions</u>	
		<u>(Tons/Mo)</u>	<u>(Tons/Yr)</u>
CO	0.8500	2.98	17.85
NO _x	3.2000	11.20	67.20
PM	0.1000	0.35	2.10
SO ₂	0.0505	0.18	1.06
VOM	0.0900	0.32	1.89

iii. These limits are based on maximum fuel usage and standard AP-42 emission factors.

f. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

5. Testing Requirements

a. The Permittee shall perform all applicable testing for the affected drum-mix asphalt plant as specified by 40 CFR 60.8, 60.93, and 60.675 as follows:

i. Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility and at such other times as may be required by the Illinois EPA or USEPA under section 114 of the Clean Air Act, the owner or operator of such facility shall conduct

performance test(s) and furnish the Illinois EPA or USEPA a written report of the results of such performance test(s) [40 CFR 60.8(a)].

- ii. Pursuant to 40 CFR 60.8(b), performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart of 40 CFR Part 60 unless the Illinois EPA or USEPA:
 - A. Specifies or approves, in specific cases, the use of a reference method with minor changes in methodology [40 CFR 60.8(b)(1)];
 - B. Approves the use of an equivalent method [40 CFR 60.8(b)(2)];
 - C. Approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance [40 CFR 60.8(b)(3)];
 - D. Waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Illinois EPA's or USEPA's satisfaction that the affected facility is in compliance with the standard [40 CFR 60.8(b)(4)]; or
 - E. Approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in this paragraph shall be construed to abrogate the Illinois EPA's or USEPA's authority to require testing under section 114 of the Clean Air Act [40 CFR 60.8(b)(5)].
- iii. Performance tests shall be conducted under such conditions as the Illinois EPA or USEPA shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Illinois EPA or USEPA such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard [40 CFR 60.8(c)].
- iv. The owner or operator of an affected facility shall provide the Illinois EPA or USEPA at least 30 days prior notice of any performance test, except as specified under other

subparts, to afford the Illinois EPA or USEPA the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Illinois EPA or USEPA as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Illinois EPA or USEPA by mutual agreement [40 CFR 60.8(d)].

- v. Pursuant to 40 CFR 60.8(e), the owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows:
 - A. Pursuant to 40 CFR 60.8(e)(1), sampling ports adequate for test methods applicable to such facility. This includes:
 - I. Constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test 1 methods and procedures [40 CFR 60.8(e)(1)(i)]; and
 - II. Providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures [40 CFR 60.8(e)(1)(ii)].
 - B. Safe sampling platform(s) [40 CFR 60.8(e)(2)].
 - C. Safe access to sampling platform(s) [40 CFR 60.8(e)(3)].
 - D. Utilities for sampling and testing equipment [40 CFR 60.8(e)(4)].
- vi. Unless otherwise specified in the applicable subpart of 40 CFR Part 60, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard under 40 CFR Part 60. For the purpose of determining compliance with an applicable standard under 40 CFR Part 60, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or

operator's control, compliance may, upon the Illinois EPA's or USEPA's approval, be determined using the arithmetic mean of the results of the two other runs [40 CFR 60.8(f)].

- vii. In conducting the performance tests required in Condition 5(a)(i) (see also 40 CFR 60.8), the owner or operator shall use as reference methods and procedures the test methods in appendix A of 40 CFR Part 60 or other methods and procedures as specified in this section, except as provided in Condition 5(a)(ii) (see also 40 CFR 60.8(b)) [40 CFR 60.93(a)].
- viii. Pursuant to 40 CFR 60.93(b), the owner or operator shall determine compliance with the particulate matter standards in Condition 2(a) (see also 40 CFR 60.92) as follows:
 - A. Method 5 shall be used to determine the particulate matter concentration. The sampling time and sample volume for each run shall be at least 60 minutes and 0.90 dscm (31.8 dscf) [40 CFR 60.93(b)(1)].
 - B. Method 9 and the procedures in 40 CFR 60.11 shall be used to determine opacity [40 CFR 60.93(b)(2)].
- ix. In conducting the performance tests required in Condition 5(a)(i) (see also 40 CFR 60.8), the owner or operator shall use as reference methods and procedures the test methods in appendix A of 40 CFR Part 60 or other methods and procedures as specified in this section, except as provided in Condition 5(a)(ii) (see also 40 CFR 60.8(b)). Acceptable alternative methods and procedures are given in Condition 5(a)(xiii) (see also 40 CFR 60.675(e)) [40 CFR 60.675(a)].
- x. Pursuant to 40 CFR 60.675(b), the owner or operator shall determine compliance with the particulate matter standards in Condition 2(b)(iv) (see also 60.672(a)) as follows:
 - A. Method 5 or Method 17 shall be used to determine the particulate matter concentration. The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5, if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121°C (250°F), to prevent water condensation on the filter [40 CFR 60.675(b)(1)].
 - B. Method 9 and the procedures in 40 CFR 60.11 shall be used to determine opacity [40 CFR 60.675(b)(2)].

- xi. A. Pursuant to 40 CFR 60.675(c)(1), in determining compliance with the particulate matter standards in Conditions 2(b)(v) and 2(b)(vi) (see also 40 CFR 60.672 (b) and (c)), the owner or operator shall use Method 9 and the procedures in 40 CFR 60.11, with the following additions:
 - I. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet) [40 CFR 60.675(c)(1)(i)].
 - II. The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed [40 CFR 60.675(c)(1)(ii)].
 - III. For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible [40 CFR 60.675(c)(1)(iii)].
- B. Pursuant to 40 CFR 60.675(c)(3), when determining compliance with the fugitive emissions standard for any affected facility described under Condition 2(b)(v) (see also 60.672(b)), the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:
 - I. There are no individual readings greater than 10 percent opacity [40 CFR 60.675(c)(3)(i)]; and
 - II. There are no more than 3 readings of 10 percent for the 1-hour period [40 CFR 60.675(c)(3)(ii)].
- C. Pursuant to 40 CFR 60.675(c)(4), when determining compliance with the fugitive emissions standard for any crusher at which a capture system is not used as described under Condition 2(b)(vi) (see also 40 CFR 60.672(c)), the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:

- I. There are no individual readings greater than 15 percent opacity [40 CFR 60.675(c)(4)(i)]; and
 - II. There are no more than 3 readings of 15 percent for the 1-hour period [40 CFR 60.675(c)(4)(ii)].
- xii. In determining compliance with Condition 2(b)(vii) (see also 40 CFR 60.672(e)), the owner or operator shall use Method 22 to determine fugitive emissions. The performance test shall be conducted while all affected facilities inside the building are operating. The performance test for each building shall be at least 75 minutes in duration, with each side of the building and the roof being observed for at least 15 minutes [40 CFR 60.675(d)].
- xiii. Pursuant to 40 CFR 60.675(e)(1), the owner or operator may use the following as alternatives, for the method and procedure of Condition 5(a)(xi) (see also 40 CFR 60.675(c)), if emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following procedures may be used:
- A. Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream [40 CFR 60.675(e)(1)(i)].
 - B. Separate the emissions so that the opacity of emissions from each affected facility can be read [40 CFR 60.675(e)(1)(ii)].
- xiv. If, after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting any rescheduled performance test required in this section, the owner or operator of an affected facility shall submit a notice to the Illinois EPA or USEPA at least 7 days prior to any rescheduled performance test [40 CFR 60.675(g)].
- xv. Pursuant to 40 CFR 60.675(h), initial Method 9 performance tests under 40 CFR 60.11 and Condition 5(a)(ix) through 5(a)(xiv) (see also 40 CFR 60.675 are not required for:
- A. Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to, but not including the next crusher, grinding mill or storage bin [40 CFR 60.675(h)(1)].

- B. Screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, that process saturated materials up to the first crusher, grinding mill, or storage bin in the production line [40 CFR 60.675(h)(2)].
- b. Pursuant to 35 IAC 212.107, 212.109, and 212.110, testing for particulate matter emissions shall be performed as follows:
 - i. For both fugitive and nonfugitive particulate matter emissions, a determination as to the presence or absence of visible emissions from emission units shall be conducted in accordance with Method 22, 40 CFR part 60, Appendix A, incorporated by reference in 35 IAC 212.113, except that the length of the observing period shall be at the discretion of the observer, but not less than one minute. This Condition shall not apply to 35 IAC 212.301 [35 IAC 212.107].
 - ii. Except as otherwise provided in 35 IAC Part 212, and except for the methods of data reduction when applied to 35 IAC 212.122 and 212.123, measurements of opacity shall be conducted in accordance with Method 9, 40 CFR Part 60, Appendix A, and the procedures in 40 CFR 60.675(c) and (d), if applicable, incorporated by reference in 35 IAC 212.113, except that for roadways and parking areas the number of readings required for each vehicle pass will be three taken at 5-second intervals. The first reading shall be at the point of maximum opacity and second and third readings shall be made at the same point, the observer standing at right angles to the plume at least 15 feet away from the plume and observing 4 feet above the surface of the roadway or parking area. After four vehicles have passed, the 12 readings will be averaged [35 IAC 212.109].
 - iii. Measurement of particulate matter emissions from stationary emission units subject to 35 IAC Part 212 shall be conducted in accordance with 40 CFR part 60, Appendix A, Methods 5, 5A, 5D, or 5E [35 IAC 212.110(a)].
 - iv. The volumetric flow rate and gas velocity shall be determined in accordance with 40 CFR part 60, Appendix A, Methods 1, 1A, 2, 2A, 2C, 2D, 3, and 4 [35 IAC 212.110(b)].
 - v. Upon a written notification by the Illinois EPA, the owner or operator of a particulate matter emission unit subject to 35 IAC Part 212 shall conduct the applicable testing for particulate matter emissions, opacity, or visible emissions at such person's own expense, to demonstrate compliance. Such test results shall be submitted to the Illinois EPA within thirty (30) days after conducting the test unless an alternative time for submittal is agreed to by the Illinois EPA [35 IAC 212.110(c)].

- c. Testing required by Conditions 5(a) and (b) shall be performed by a qualified independent testing service.
- d. The moisture content of a representative sample of the aggregate processed in the crushing plant associated with the affected drum-mix asphalt plant shall be measured at least one per week using ASTM Procedures (C566-67) for total moisture content of material.
- e. Within 15 business days after discovery of the leak by the owner, operator, or the Illinois EPA, repair and retest a vapor collection system which exceeds the limits of Condition 3(d)(iv)(A) (see also 35 IAC 215.583(d)(4)(A), 218.583(d)(4)(A), or 219.583(d)(4)(A)) [35 IAC 215.583(d)(5), 218.583(d)(5), or 219.583(d)(5)].

6. Inspection and Monitoring Requirements

- a. The Permittee shall perform all applicable monitoring for the affected drum-mix asphalt plant as specified in 40 CFR 60.13 and 60.674.
- b. Inspections of the affected drum-mix asphalt plant and control systems equipment and operations shall be performed as necessary but at least once per week when the affected drum-mix asphalt plant is in operation to confirm compliance with the requirements of this permit.
- c.
 - i. The water supply to the spray equipment shall be equipped with a metering device used to determine water usage for the control of particulate matter emissions.
 - ii. Inspections of water spray equipment and operation (such as leaking, maintaining adequate flow, clogging of flow lines, etc.) shall be performed at least once per week when the crushing plant associated with the affected drum-mix asphalt plant is in operation.

7. Recordkeeping Requirements

The Permittee shall maintain records of the following items for the affected drum-mix asphalt plant to demonstrate compliance with Conditions 2, through 6 of this permit:

- a. The Permittee shall retain all applicable records for the affected drum-mix asphalt plant as specified by 40 CFR 60.7 and 60.676.
- b. The owner or operator of an emission unit subject to 35 IAC Part 212 shall retain records of all tests which are performed. These records shall be retained for at least three (3) years after the date a test is performed [35 IAC 212.110(e)].

- c.
 - i. Pursuant to 35 IAC 212.316(g), the owner or operator of any fugitive particulate matter emission unit subject to Condition 2(iv) (see also 35 IAC 212.316) (i.e., located in McCook, Lake Calumet, or Granite City) shall keep written records of the application of control measures as may be needed for compliance with the opacity limitations of Condition 2(iv) (see also 35 IAC 212.316).
 - ii. Pursuant to 35 IAC 212.316(g) (2), the records required under this Condition shall include at least the following:
 - A. The name and address of the source [35 IAC 212.316(g) (2) (A)];
 - B. The name and address of the owner and/or operator of the source [35 IAC 212.316(g) (2) (B)];
 - C. A map or diagram showing the location of all emission units controlled, including the location, identification, length, and width of roadways [35 IAC 212.316(g) (2) (C)];
 - D. For each application of water or chemical solution to roadways by truck: the name and location of the roadway controlled, application rate of each truck, frequency of each application, width of each application, identification of each truck used, total quantity of water or chemical used for each application and, for each application of chemical solution, the concentration and identity of the chemical [35 IAC 212.316(g) (2) (D)];
 - E. For application of physical or chemical control agents: the name of the agent, application rate and frequency, and total quantity of agent and, if diluted, percent of concentration, used each day [35 IAC 212.316(g) (2) (E)]; and
 - F. A log recording incidents when control measures were not used and a statement of explanation [35 IAC 212.316(g) (2) (F)].
 - iii. The records required under this Condition (see also 35 IAC 212.316(g)) shall be kept and maintained for at least three (3) years and shall be available for inspection and copying by Illinois EPA representatives during working hours [35 IAC 212.316(g) (4)].
- d. Recordkeeping of Maintenance and Repair. Pursuant to 35 IAC 212.324(g), sources subject to Condition 2(c) (viii) (see also 35 IAC 212.324) (i.e., sources located in McCook, Lake Calumet, or Granite City) shall maintain the following records:

- i. Written records of inventory and documentation of inspections, maintenance, and repairs of all air pollution control equipment shall be kept in accordance with Condition 3(b) (see also 35 IAC 212.324(f)) [35 IAC 212.324(g) (1)].
- ii. The owner or operator shall document any period during which any process emission unit was in operation when the air pollution control equipment was not in operation or was malfunctioning so as to cause an emissions level in excess of the emissions limitation. These records shall include documentation of causes for pollution control equipment not operating or such malfunction and shall state what corrective actions were taken and what repairs were made [35 IAC 212.324(g) (2)].
- iii. A written record of the inventory of all spare parts not readily available from local suppliers shall be kept and updated [35 IAC 212.324(g) (3)].
- iv. Copies of all records required by Condition 7(d) (see also 35 IAC 212.324(g)) shall be submitted to the Illinois EPA within ten (10) working days after a written request by the Illinois EPA [35 IAC 212.324(g) (4)].
- v. The records required under Condition 7(d) (see also 35 IAC 212.324(g)) shall be kept and maintained for at least three (3) years and shall be available for inspection and copying by Illinois EPA representatives during working hours [35 IAC 212.324(g) (5)].
- e. Records addressing the application of control measures taken pursuant to the operating program required by Condition 2(c) (v) (D) which are used to reduce fugitive particulate matter emissions.
- f. Records addressing use of good operating practices for the baghouse:
 - i. Operating logs for the affected drum-mix asphalt plant dryer baghouse, including operating data (pressure drop or stack condition), daily upon startup;
 - ii. Records for periodic inspection of the baghouse with date, individual performing the inspection, and nature of inspection; and
 - iii. Records for prompt repair of defects, with identification and description of defect, effect on emissions, date identified, date repaired, and nature of repair.

- g. The Permittee shall maintain records of excess emissions during malfunctions and breakdowns of the baghouse associated with the affected drum-mix asphalt plant dryer. At a minimum, these records shall include:
 - i. Date and duration of malfunction or breakdown;
 - ii. A full and detailed explanation of the cause for such emissions;
 - iii. The contaminants emitted and an estimate of the quantity of emissions;
 - iv. The measures used to reduce the quantity of emissions and the duration of the occurrence; and
 - v. The steps taken to prevent similar malfunctions or breakdowns or reduce their frequency and severity.
- h. Records addressing use of good operating practices for the crushing plant:
 - i. If the Permittee is relying on the requirements of Conditions 3(g) (ii) and 5(d) to demonstrate compliance with Condition 3(g), the Permittee shall maintain records of all moisture content tests performed including date, time, individual performing test, and location of sample (e.g., prior to crushing, stockpiles, etc.);
 - ii. If the Permittee is relying on Condition 3(g) (i) to demonstrate compliance with Condition 3(g), the Permittee shall maintain operating logs for the water spray equipment, including dates and times of usage, malfunctions (type, date, and measures taken to correct), water pressure, and dates when there was at least 0.25" of rainfall during the preceding 24 hours and the water spray equipment was not operated; and
 - iii. The Permittee shall maintain weekly records of water consumption in the spray equipment, as determined by the meter required by Condition 6(c) (i) and the amount of precipitation specified in Condition 7(h) (ii).
- i. Records addressing use of good operating practices for the storage tanks:
 - i. Pursuant to 35 IAC 218.129(f) and 219.129(f), as applicable, each storage vessel with a design capacity less than 40,000 gallons is subject to no provisions of 35 IAC Parts 218 or 219 other than those required by maintaining readily accessible records of the dimensions of the storage vessel and analysis of the capacity of the storage vessel;

- ii. Design information for the tanks showing the presence of a permanent submerged loading pipe; and
 - iii. Maintenance and repair records for the tanks, as related to the repair or replacement of the loading pipe.
- j. Production and Operating Records:
 - i. Asphalt production (tons/mo and tons/yr);
 - ii. Aggregate throughput for the crushing plant (tons/mo and tons/yr);
 - iii. Fuel Usage Records:
 - A. Total natural gas usage (Mft³/mo and Mft³/yr);
 - B. Total liquefied petroleum gas (LPG) usage (gal/mo and gal/yr);
 - C. Total fuel oil usage (gal/mo and gal/yr) and type of fuel oil used;
 - D. Distillate fuel oil usage for the diesel-powered generator (gal/mo and gal/yr); and
 - E. The sulfur content of the fuel oil used in the affected drum-mix asphalt plant (% by weight), this shall be recorded for each shipment of oil delivered to the source.
 - iv. Total throughput of each material stored in the tanks present at the source (gal/mo and gal/yr).
- k. Annual CO, NO_x, PM, SO₂, and VOM emissions from the affected drum-mix asphalt plant shall be maintained, based on asphalt production, fuel consumption, crushing plant throughput, and storage tank throughput and the applicable emission factors, with supporting calculations.
- l. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least five (5) years after the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer storage device) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to the Illinois EPA or USEPA request for records during the course of a source inspection.

8. Reporting Requirements

- a. The Permittee shall submit all applicable reports for the affected drum-mix asphalt plant as specified in 40 CFR 60.7, 60.19, and 60.676.
- b. A person planning to conduct testing for particulate matter emissions to demonstrate compliance shall give written notice to the Illinois EPA of that intent. Such notification shall be given at least thirty (30) days prior to the initiation of the test unless a shorter period is agreed to by the Illinois EPA. Such notification shall state the specific test methods from 35 IAC 212.110 that will be used [35 IAC 212.110(d)].
- c.
 - i. Pursuant to 35 IAC 212.316(g), the owner or operator of any fugitive particulate matter emission unit subject to Condition 2(c)(vi) (see also 35 IAC 212.316) (i.e., source located in McCook, Lake Calumet, or Granite City) shall submit to the Illinois EPA an annual report containing a summary of the written records specified under Condition 7(c) (see also 35 IAC 212.316(g)).
 - ii. Copies of all records required by Condition 7(c) (see also 35 IAC 212.316(g)) shall be submitted to the Illinois EPA within ten (10) working days after a written request by the Illinois EPA and shall be transmitted to the Illinois EPA by a company-designated person with authority to release such records [35 IAC 212.316(g)(3)].
 - iii. A quarterly report shall be submitted to the Illinois EPA stating the following: the dates any necessary control measures were not implemented, a listing of those control measures, the reasons that the control measures were not implemented, and any corrective actions taken. This information includes, but is not limited to, those dates when controls were not applied based on a belief that application of such control measures would have been unreasonable given prevailing atmospheric conditions, which shall constitute a defense to the requirements of this Condition 2(c)(vi) (see also 35 IAC 212.316). This report shall be submitted to the Illinois EPA thirty (30) calendar days from the end of a quarter. Quarters end March 31, June 30, September 30, and December 31 [35 IAC 212.316(g)(5)].
- d. Pursuant to 35 IAC 212.324(g)(6), for sources subject to Condition 2(c)(viii), upon written request by the Illinois EPA, a report shall be submitted to the Illinois EPA for any period specified in the request stating the following: the dates during which any process emission unit was in operation when the air pollution control equipment was not in operation or was not operating properly, documentation of causes for pollution control equipment not operating or not operating properly, and a statement of what corrective actions were taken and what repairs were made.

- e. The Permittee shall submit notification of the changes to the operation of the source to the Illinois EPA- Air Permit Section ten (10) working days prior to the commencement of such change as follows:
 - i. The replacement of any emission unit or air pollution control equipment authorized by Condition 1(d) of this permit; or
 - ii. The addition of any emission unit or air pollution control equipment so long as the source continues to comply with Condition 1(d) of this permit.
- f. The Permittee shall promptly notify the Illinois EPA, Compliance Section, of deviations of the affected drum-mix asphalt plant with the permit requirements as follows. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:
 - i. Emissions of CO, NO_x, PM, SO₂ and/or VOM, in excess of the limit specified in Condition 4 within 30 days of a record showing such an occurrence.
 - ii. Continued operation of the affected drum-mix asphalt plant with a defect in a baghouse that may result in emissions of particulate matter in excess of limits in Conditions 2(a), 2(c), or 4(a) within 30 days of such an occurrence.
 - iii. The use of fuel oil with a sulfur content in excess of the limit specified in Condition 3(i) with the length of time this fuel was used and the effect on emissions of SO₂ within 30 days of this violation being detected.
- g. The Permittee shall provide the following notification and reports to the Illinois EPA, Compliance Section and Regional Field Office, pursuant to 35 IAC 201.263, concerning continued operation of the affected drum-mix asphalt plant during malfunction or breakdown of the affected drum-mix asphalt plant with excess emissions
 - i. The Permittee shall notify the Illinois EPA's regional office by telephone as soon as possible during normal working hours, but no later than three (3) days, upon the occurrence of noncompliance due to malfunction, or breakdown.
 - ii. Upon conclusion of the incident, the Permittee shall give a written follow-up notice to the Illinois EPA, Compliance Section and Regional Field Office, providing a detailed explanation of the event, an explanation why continued operation of the affected drum-mix asphalt plant was

necessary, the length of time during which operation continued under such conditions, the measures taken by the Permittee to minimize and correct deficiencies with chronology, and when the repairs were completed or when the affected drum-mix asphalt plant was taken out of service.

g. Reporting Addresses

The following addresses should be utilized for the submittal of reports, notifications, and renewals:

i. Illinois EPA - Air Compliance Section

Illinois Environmental Protection Agency
Bureau of Air
Compliance Section (MC 40)
P.O. Box 19276
Springfield, Illinois 62794-9276

ii. Illinois EPA - Air Regional Field Office

FILL_CHOOSE ADDRESS_IN
Illinois Environmental Protection Agency
Division of Air Pollution Control - Region 1
9511 West Harrison
Des Plaines, Illinois 60016

Illinois Environmental Protection Agency
Division of Air Pollution Control - Region 2
5415 North University
Peoria, Illinois 61614

Illinois Environmental Protection Agency
Division of Air Pollution Control - Region 3
2009 Mall Street
Collinsville, Illinois 62234

iii. Illinois EPA - Air Permit Section

Illinois Environmental Protection Agency
Division of Air Pollution Control
Permit Section (MC 11)
P.O. Box 19506
Springfield, Illinois 62794-9506

iv. USEPA Region 5 - Air Branch

USEPA (AE - 17J)
Air & Radiation Division
77 West Jackson Boulevard
Chicago, Illinois 60604

- h. Unless otherwise specified in the particular provision of this permit, reports shall be sent to the Illinois EPA - Air Compliance Section with a copy sent to the Illinois EPA - Air Regional Field Office.

9. Compliance Procedures

Compliance with the emission limits shall be based on the recordkeeping requirements in Condition 7 and the emission factors and formulas listed below:

- a. To determine compliance for Condition 2(d)(i), sulfur dioxide standards for small fuel combustion emission units combusting liquid fuels, the emission rate shall be calculated based on the following:

$$\text{SO}_2 \text{ (lb/mmBtu)} = (\text{Density of Fuel Oil, lb/gal}) \times (\text{wt. \% Sulfur/100\%}) \times [1/(\text{Heat Content of Fuel Oil, Btu/gal})] \times (1,000,000 \text{ Btu/1 mmBtu})$$

or

$$\text{SO}_2 \text{ (lb/mmBtu)} = (\text{wt. \% Sulfur/100\%}) \times [1/(\text{Heat Content of Fuel Oil, Btu/lb})] \times (1,000,000 \text{ Btu/1 mmBtu})$$

- b. To determine compliance with Condition 4(a)(ii), emissions from the drum mixer/dryer shall be calculated based on the following emission factors:

- i. PM, PM₁₀, and VOM emissions:

<u>Pollutant</u>	<u>Emission Factor (Lb/Ton)</u>
PM	0.033
PM ₁₀	0.023
VOM	0.032

These are the emission factors for drum-mix hot mix asphalt plants, controlled by fabric filter, Tables 11.1-3 and 11.1-8, AP-42, Volume I, Fifth Edition, Update 2001, December 2000.

- ii. CO, NO_x, and SO₂ emissions:

<u>Type of Dryer/Fuel</u>	<u>Emission Factor (Lb/Ton)</u>		
	<u>CO</u>	<u>NO_x</u>	<u>SO₂</u>
Natural Gas-Fired Dryer	0.13	0.026	0.0034
No 2. Fuel Oil-Fired Dryer	0.13	0.055	0.011
Residual Oil-Fired Dryer	0.13	0.055	0.058

These are the emission factors for drum-mix hot mix asphalt plants, Table 11.1-7, AP-42, Volume I, Fifth Edition, Update 2001, December 2000.

Dryer Emissions (lb) = (wt. of Asphalt Produced, ton) x
(The Appropriate Emission Factor, lb/ton)

- c. To determine compliance with Condition 4(a)(iii), emissions from the Asphalt Silos and Truck Loadout shall be calculated based on the following emission factors:

<u>Pollutant</u>	<u>Emission Factor (Lb/Ton)</u>
CO	0.0007
PM	0.0007
VOM	0.0048

These are the emission factors for drum-mix hot mix asphalt plant load-out, derived from the formulas listed Table 11.1-14, AP-42, Volume I, Fifth Edition, Update 2001, December 2000.

Asphalt Silo and Truck Loadout Emissions (lb) = (wt. Of Asphalt Produced, ton) x (The Appropriate Emission Factor, lb/ton)

- d. To determine compliance with Condition 4(b), fuel combustion emissions from the asphalt heaters and boilers shall be calculated based on the following emission factors:

- i. Natural Gas Combustion Emissions:

<u>Pollutant</u>	<u>Natural Gas Emission Factor (Lb/Mft³)</u>
CO	84
NO _x	100
PM	7.6
SO ₂	0.6
VOM	5.5

These are the emission factors for uncontrolled natural gas combustion in small boilers (< 100 mmBtu/hr), Tables 1.4-1 and 1.4-2, AP-42, Volume I, Fifth Edition, Supplement D, March, 1998.

Natural Gas Combustion Emissions (lb) = (Natural Gas Consumed, Mft³) x (The Appropriate Emission Factor, lb/Mft³)

- ii. Fuel-Oil Combustion Emissions from Boilers and Tank Heaters:

Fuel Oil Emission Factors (Lb/1,000 Gal)

<u>Pollutant</u>	<u>Distillate</u>	<u>No. 4</u>	<u>No. 5</u>	<u>No. 6</u>
CO	5	5	5	5
NO _x	20	20	55	55
PM	2	7	9.19(S) + 3.22	10
SO ₂	142 S	142 S	150 S	157 S
VOM	0.34	0.34	1.13	1.13

These are the emission factors for uncontrolled distillate and residual fuel oil combustion in commercial/institutional/residential combustors, Tables 1.3-2 and 1.3-3, AP-42, Volume I, Fifth Edition, Supplement E, September 1998. S indicates that the weight % of sulfur in the oil should be multiplied by the value given.

Fuel-Oil Combustion Emissions (lb) = (Fuel Oil Consumed, gal) x (The Appropriate Emission Factor, lb/1,000 gal)

- e. For the purpose of estimating VOM emissions from the storage tanks to determine compliance with Condition 4(c), the current version of the TANKS program is acceptable.
- f. To determine compliance with Condition 4(d)(ii), PM emissions from the crushing plant shall be calculated based on the following emission factors:

<u>Type of Dryer/Fuel</u>	<u>PM Emission Factor (Lb/Ton)</u>
Crushers	0.0012
Screens	0.0022
Conveyors	0.00014

These are the emission factors for crushed stone processing operations for tertiary crushing, screening (controlled), and conveyor transfer point (controlled) listed Table 11.19.2-2, AP-42, Volume I, Fifth Edition, Update 2004, August 2004.

PM Emissions (lb) = (wt. of Aggregate Processed, ton) x (The Appropriate Emission Factor, lb/ton)

- g. To determine compliance with Condition 4(e), fuel combustion emissions from the diesel-powered generator shall be calculated based on the following emission factors

<u>Pollutant</u>	<u>Emission Factor (Lb/mmBtu)</u>
CO	0.8500
NO _x	3.2000
PM	0.1000
SO ₂	0.0505
VOM	0.0900

These are the emission factors for large stationary diesel engines, Table 3.4-1, AP-42, Volume I, Fifth Edition, Supplement B, October 1996.

Diesel-Powered Generator Emissions (lb) = (Distillate Fuel Oil Consumed, gal) x (Heat Content of Fuel Oil, Btu/Gal) x (1 mmBtu/1,000,000 Btu) x (The Appropriate Emission Factor, lb/mmBtu)

10. The assembly of this plant at a new location will require a construction permit. This permit must be obtained prior to commencing construction at the new location. For this purpose, a new location is defined as a location in Illinois at which the plant does not have a valid operating permit or authorization letter.
11. The operation of this plant at a location in Illinois other than a location identified in a valid operating permit or an authorization letter requires another operating permit or authorization from the Illinois EPA. This operating permit/authorization must be obtained prior to operating at such location.
12. The Permitted shall notify the Illinois EPA in writing 5 days in advance of either disassembling or reassembling the plant at the source location identified in an authorization letter.

If you have any questions on this permit, please call a Permit Analyst at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

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Attachment A - Emissions Summary

This attachment provides a summary of the maximum emission of an affected drum-mix asphalt plant operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario, which results in maximum emissions from such a plant. This is production of 850,000 tons of asphalt, the processing of 425,000 tons of reclaimed asphalt pavement (RAP) and recycled concrete, 100,000 gallons of fuel oil for the generator, and a total maximum rated heat input of 14,000,000 Btu per hour for boilers and asphalt heaters. The resulting maximum emissions are below the levels, e.g., 100 tons per year of carbon monoxide and 25 tons per year of volatile organic material, at which a plant would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from an affected drum-mix asphalt plant will be less than predicted in this summary to the extent that less materials will be handled by the plant, gaseous fuel is used, and control measures are more effective than required by this permit.

<u>Item of Equipment</u>	Annual Emissions (Tons/year)				
	<u>CO</u>	<u>NO_x</u>	<u>PM</u>	<u>SO₂</u>	<u>VOM</u>
Drum Mixer/Dryer	55.25	23.38	14.03	24.65	13.60
Asphalt Silos and Truck Loadout	0.30	----	0.30		2.04
Asphalt Heaters and Boilers	5.15	8.77	0.86	18.64	0.37
3 Crushers	----	----	0.77	----	----
9 Screens	----	----	4.21	----	----
30 Conveyors	----	----	0.89	----	----
12 Storage Tanks	----	----	----	----	6.00
<u>Generator</u>	<u>17.85</u>	<u>67.20</u>	<u>2.10</u>	<u>1.06</u>	<u>1.89</u>
Total	78.55	99.35	23.16	44.35	23.90

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Attachment B

35 IAC 212.302 Geographical Areas of Application

1. Pursuant to 35 IAC 212.302(a), Condition 2(c)(v) (see also 35 IAC 212.304 through 212.310 and 212.312) shall apply to all mining operations (SIC major groups 10 through 14), manufacturing operations (SIC major groups 20 through 39 except for those operations subject to 35 IAC Part 212 Subpart S (Grain-Handling and Grain-Drying Operations) that are outside the areas defined in Attachment C (see also 35 IAC 212.324(a)(1))), and electric generating operations (SIC group 491), which are located in the areas defined by the boundaries of the following townships, notwithstanding any political subdivisions contained therein, as the township boundaries were defined on October 1, 1979, in the following counties:

Cook:	All townships
Lake:	Shields, Waukegan, Warren
DuPage:	Addison, Winfield, York
Will:	DuPage, Plainfield, Lockport, Channahon, Peotone, Florence, Joliet
Peoria:	Richwoods, Limestone, Hollis, Peoria, City of Peoria
Tazewell:	Fondulac, Pekin, Cincinnati, Groveland, Washington
Macon:	Decatur, Hickory Point
Rock Island:	Blackhawk, Coal Valley, Hampton, Moline, South Moline, Rock Island, South Rock Island
LaSalle:	LaSalle, Utica
Madison:	Alton, Chouteau, Collinsville, Edwardsville, Fort Russell, Godfrey, Granite City, Nameoki, Venice, Wood River
St. Clair	Canteen, Caseyville, Centerville, St. Clair, Stites, Stookey, Sugar Loaf, Millstadt.
2. In the geographical areas defined in Attachment C (see also 35 IAC 212.324(a)(1)), Condition 2(c)(v) (see also 35 IAC 212.304 through 212.310, and 212.312), and Condition 2(c)(vi) (see also 35 IAC 212.316) shall apply to all emission units identified in subsection (a) of 35 IAC 212.302, and shall further apply to the following operations: grain-handling and grain-drying (35 IAC Part 212 Subpart S), transportation, communications, electric, gas, and sanitary services (SIC major groups 40 through 49). Additionally, Condition 2(c)(v) (see also 35 IAC 212.304 through 212.310 and 212.312) and Condition 2(c)(vi) (see also 35 IAC 212.316) shall apply to wholesale trade-farm supplies (SIC Industry No. 5191) located in the vicinity of Granite City, as defined in Attachment C (see also 35 IAC 212.324(a)(1)(C)) [35 IAC 212.302(b)].
3. Emission units must comply with subsection (b) of this 35 IAC 212.302 by May 11, 1993, or upon initial start-up, whichever occurs later [35 IAC 212.302(c)].

Attachment C

35 IAC 212.324 Process Emission Units in Certain Areas

1. Applicability.

- a. Pursuant to 35 IAC 212.324(a) (1), Condition 2(c) (viii) (see also 35 IAC 212.324) shall apply to any process emission unit located in any of the following areas:
 - i. That area bounded by lines from Universal Transmercator (UTM) coordinate 428000mE, 4631000mN, east to 435000mE, 4631000mN, south to 435000mE, 4623000mN, west to 428000mE, 4623000mN, north to 428000mE, 4631000mN, in the vicinity of McCook in Cook County, as shown in Illustration D of 35 IAC Part 212 [35 IAC 212.324(a) (1) (A)];
 - ii. That area bounded by lines from Universal Transmercator (UTM) coordinate 445000mE, 4622180mN, east to 456265mE, 4622180mN, south to 456265E, 4609020N, west to 445000mE, 4609020mN, north to 445000mE, 4622180mN, in the vicinity of Lake Calumet in Cook County, as shown in Illustration E of 35 IAC Part 212 [35 IAC 212.324(a) (1) (B)];
 - iii. That area bounded by lines from Universal Transmercator (UTM) coordinate 744000mE, 4290000mN, east to 753000mE, 4290000mN, south to 753000mE, 4283000mN, west to 744000mE, 4283000mN, north to 744000mE, 4290000mN, in the vicinity of Granite City in Madison County, as shown in Illustration F of 35 IAC Part 212 [35 IAC 212.324(a) (1) (C)].
- b. 35 IAC 212.324 shall not alter the applicability of Condition 2(c) (vii) (see also 35 IAC 212.321 and 35 IAC 212.322 [35 IAC 212.324(a) (2)]).

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